

**McAlpin Industries, Inc.**  
**Job Description**

**Job:** E-514

**Department:** Quality

**Job Title:** Quality Engineer

**Reports to:** Quality Manager

**General Job Summary:**

The Quality Engineer will lead and facilitate the implementation quality initiatives and their continual improvement. Responsible engineering activities and lead, coach, and facilitate problem solving, analysis of data and continual improvement activities.

Ensure the quality of the parts produced meet all expectations; quickly and effectively take action when external or internal non-conformances are found.

**Essential Duties and Responsibilities:**

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individual with disabilities to perform the essential job functions.

- Follows all safety process and procedures in accordance with the job and Company policy
- Be the Quality liaison between the customer and site manufacturing process
- Facilitate and promote use of appropriate problem solving techniques for effective root cause analysis and successful corrective action. Interfaces with engineering and manufacturing to ascertain and implement corrective actions.
- Responsible for customer concern management and corrective action request process
- Provide engineering support to operations ensuring consistent application of quality techniques
- Determine when process stability and capability studies should be performed on existing processes. Review and analyze results. Recommend changes to processes based upon findings and perform follow up to verify effectiveness
- Participate in the Advanced Product Quality Planning activities (NORP) to determine appropriate use of existing and new measurement systems during new tool or process design and startup.
- Participate in the PT lot process to ensure that all quality checks as outlined in the MPCD are in place and will ensure that customer requirements will be achieved.
- Coordinate, develop and submit PPAP documents for new product lunches to meet customer requirements.
- Drives continuous improvement and prevention of future failures by helping facilitate implementation of the Corrective
- Collects and analyses data and quality metrics such as scrap, End-Of-Line failures, and additional operations
- Reviews, Audits and Initiates Updates to the Quality and Inspection portions of MPCDs (operator instructions) based on customer prints.
- Ensure compliance with QMS and ISO/TS 16949 specifications

**Supervisory Responsibilities:**

None

**Education**

Bachelor's degree (B.A.) in engineering or technical field or equivalent combination of education and experience.

**Experience**

5-7 years related experience or training

**Computer Skills:**

To perform this job successfully, an individual should have knowledge of Microsoft Outlook, Microsoft Word, Microsoft Excel, Internet Explorer and Microsoft PowerPoint.

**Other Requirements:**

Knowledge and experience in metal fabrication, stamping and forming. Ability to use standard manufacturing measurement tools and equipment. SPC, GD&T, DOE, Gage R&R, statistical analysis. Basic understanding of mechanical processes, materials and machinery. Strong problem solving skills. Ability to travel (15%) to customers and suppliers. ASQ certification a plus. PC-DMIS experience a plus.

**Language Skills:**

Very High Skills: Ability to read, analyze, and interpret common scientific and technical journals, financial reports, and legal documents. Ability to respond to common inquiries or complaints from customers, regulatory agencies, or members of the business community. Ability to write speeches and articles for publication that conforms to prescribed style and format. Ability to effectively present information to top management, public groups, and/or boards of directors.

**Mathematical Skills:**

High Skills: Ability to work with mathematical concepts such as probability and statistical inference, and fundamentals of plane and solid geometry and trigonometry. Ability to apply concepts such as fractions, percentages, ratios, and proportions to practical situations.

**Reasoning Ability:**

Very High Skills: Ability to define problems, collect data, establish facts, and draw valid conclusions. Ability to interpret an extensive variety of technical instructions in mathematical or diagram form and deal with several abstract and concrete variables.

**Physical Demands:**

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job the employee is regularly required to stand; walk; sit; maneuver through the office and factory and lift and/or move up to 35 pounds.

**Work Environment:**

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform within the described work environment.

The work environment is regularly humid with extreme heat or cold. While performing the duties of this job the noise level in the work environment is usually loud. .

This is to acknowledge that I have received a copy of my job description.

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Signature

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Date

